



0570
1028

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/022,025
Source: OPE
Date Processed by STIC: 10/25/2002

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

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- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER
VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND
TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name,
Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
Or
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two,
2011 South Clark Place, Arlington, VA 22202
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Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER: 10/022,025

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics
 Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2 Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3 Misaligned Amino
 Numbering The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4 Non-ASCII The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5 Variable Length Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 PatentIn 2.0
 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7 Skipped Sequences
 (OLD RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:
 (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
 (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 This sequence is intentionally skipped

 Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8 Skipped Sequences
 (NEW RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence.
 <210> sequence id number
 <400> sequence id number
 000
- 9 Use of n's or Xaa's
 (NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
 Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
 In <220> to <223> section, please explain location of n or Xaa; and which residue n or Xaa represents.
- 10 ✓ Invalid <213>
 Response Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11 Use of <220> Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses.
 Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
 (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12 PatentIn 2.0
 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13 Misuse of n n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.



OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/022,025

DATE: 10/25/2002

TIME: 16:08:21

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Output Set: N:\CRF4\10252002\J022025.raw

5 <110> APPLICANT: Coleman, John R.

9 <120> TITLE OF INVENTION: Nucelic Acid Molecules and Polypeptides for Catabolism of
Absciscic

10 Acid

14 <130> FILE REFERENCE: 3310 0003

18 <140> CURRENT APPLICATION NUMBER: US 10/022,025

20 <141> CURRENT FILING DATE: 2001-12-13

24 <150> PRIOR APPLICATION NUMBER: US 60/254,819

26 <151> PRIOR FILING DATE: 2000-12-13

30 <160> NUMBER OF SEQ ID NOS: 8

34 <170> SOFTWARE: PatentIn version 3.0

38 <210> SEQ ID NO: 1

40 <211> LENGTH: 2009

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44 <213> ORGANISM: Arabidopsis thaliana

48 <220> FEATURE:

50 <221> NAME/KEY: gene

52 <222> LOCATION: (1)..(2009)

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61 tatctctctc ttctcttcac ttactttgct ttgatccgcc atggctacga aactcgaaag 180
63 ctcccttaatc ttggcccttt tgtccaaatg cagcgttcta agccaaacca accttgccct 240
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67 cgggtggacct gcttggggga aatacctctt cggccgggta atatccgggt catacaaaac 360
69 cggaaacggt attcccggtc caaaaaggctt ccctttgggt ggaagcatgt cactcatgtc 420
71 aagcactcta gctcaccgac gaatcgctga tgcagctgag aaattcggag ccaagaggct 480
73 catggctttc agcttaggag agactcgctg gatcgctcag tgcaatcccg acgtagcgaa 540
75 agagattctg aatagcccgg tttttgctga tcgaccgggt aaagaatcgg ctactcaact 600
77 gatgtttaac agagcaattg gttttgcacc acacggtggt tactggcgaa cgcttcgccg 660
79 tatcgcttcg aaccatctct ttagtataaa acaaatcaga agagccgaga cgcaacgacg 720
81 agtgatctca agccagatgg ttgagtttct tgaaaaacag agtagtaacg aacctgtttt 780
83 tgttcgtgag ttgcttaaaa cgccgctcgt taacaacatg atgtgctctg tattcggaca 840
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87 tttgctcgga acgttgaatt ggactgatca ccttccttgg ctatcggagt ttgatcctca 960
89 aagactccgg tctagatggt ccacactcgt accaaaggta aaccggtttg tatcccggat 1020
91 tatatccgaa caccgtaatc aaaccgggta tttgcctcgt gatttcgtcg acgttttgct 1080
93 ctccctccat ggttcagata aattatccga cccggacata atcgccgttc tttgggtatg 1140
95 cacaccattt atttgattaa ttattcttaa ttatatttgt tgaaaattgc ttaggattat 1200
97 ttagattaaa acatgaaatt tgagactcaa tgtgacgtgt tgtggaataa ttaaagcatt 1260
99 agaagttttt tgtttgacat caaattagta aattttagat tttataacag tttctataaa 1320
101 aagtaaaaaa tactaaaatt tttgagttat tattacagga gatgatattc agaggaacag 1380
103 acacagttgc ggtcttaatc gagtggatcc tcgctaggat ggtccttcac ccagatatgc 1440
105 aatcaacggt acaaaacgag ctggatcaag tagtcgggaa atcaagagcc ctagatgaat 1500

Does Not Comply
Corrected Diskette NeededDoes Not Comply
Corrected Diskette Needed

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/022,025

DATE: 10/25/2002

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111 gtcttggtcc ggcagggacc acagcaatgg tgaacatgtg ggccgtatcg catgatccac 1680
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117 tttgccccgg gaagaatctt ggttttacta cgttatgtt ttggacggcg atgatgttac 1860
119 atgagtttga atggggaccg tccgatggta acggcggttga cttatctgag aaactgaggc 1920
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141 <222> LOCATION: (1)..(1593)
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148 1 5 10 15
150 tgc agc gtt cta agc caa acc aac ctt gcc ttc tcc ctc ctc gcc gtc 96
151 Cys Ser Val Leu Ser Gln Thr Asn Leu Ala Phe Ser Leu Leu Ala Val
152 20 25 30
154 aca atc atc tgg ctc gcc ata tct ctc ttc tta tgg acc tat ccc ggt 144
155 Thr Ile Ile Trp Leu Ala Ile Ser Leu Phe Leu Trp Thr Tyr Pro Gly
156 35 40 45
158 gga cct gct tgg ggg aaa tac ctc ttc ggc cgg tta ata tcc ggt tca 192
159 Gly Pro Ala Trp Gly Lys Tyr Leu Phe Gly Arg Leu Ile Ser Gly Ser
160 50 55 60
162 tac aaa acc gga aac gtt att ccc ggt cca aaa ggc ttc cct ttg gtt 240
163 Tyr Lys Thr Gly Asn Val Ile Pro Gly Pro Lys Gly Phe Pro Leu Val
164 65 70 75 80
166 gga agc atg tca ctc atg tca agc act cta gct cac cga cga atc gct 288
167 Gly Ser Met Ser Leu Met Ser Ser Thr Leu Ala His Arg Arg Ile Ala
168 85 90 95
170 gat gca gct gag aaa ttc gga gcc aag agg ctc atg gct ttc agc tta 336
171 Asp Ala Ala Glu Lys Phe Gly Ala Lys Arg Leu Met Ala Phe Ser Leu
172 100 105 110
174 gga gag act cgc gtg atc gtc acg tgc aat ccc gac gta gcg aaa gag 384
175 Gly Glu Thr Arg Val Ile Val Thr Cys Asn Pro Asp Val Ala Lys Glu
176 115 120 125
178 att ctg aat agc ccg gtt ttt gct gat cga ccg gtt aaa gaa tcg gct 432
179 Ile Leu Asn Ser Pro Val Phe Ala Asp Arg Pro Val Lys Glu Ser Ala
180 130 135 140
182 tac tca ctg atg ttt aac aga gca att ggt ttt gca cca cac ggt gtt 480
183 Tyr Ser Leu Met Phe Asn Arg Ala Ile Gly Phe Ala Pro His Gly Val
184 145 150 155 160
186 tac tgg cga acg ctt cgc cgt atc gct tcg aac cat ctc ttt agt aca 528
187 Tyr Trp Arg Thr Leu Arg Arg Ile Ala Ser Asn His Leu Phe Ser Thr

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188		165		170		175		
190	aaa	caa	atc	aga	aga	gcc	gag	acg
191	Lys	Gln	Ile	Arg	Arg	Ala	Glu	Thr
192				180			185	
194	atg	gtt	gag	ttt	ctt	gaa	aaa	cag
195	Met	Val	Glu	Phe	Leu	Glu	Lys	Gln
196				195			200	
199	cgt	gag	ttg	ctt	aaa	acg	gcg	tcg
200	Arg	Glu	Leu	Leu	Lys	Thr	Ala	Ser
201				210			215	
203	ttc	gga	caa	gag	tat	gag	ctt	gaa
204	Phe	Gly	Gln	Glu	Tyr	Glu	Leu	Glu
205	225						230	
207	atg	gtc	gaa	gaa	ggg	tat	gat	ttg
208	Met	Val	Glu	Glu	Gly	Tyr	Asp	Leu
209							245	
211	cac	ctt	cct	tgg	cta	tcg	gag	ttt
212	His	Leu	Pro	Trp	Leu	Ser	Glu	Phe
213							260	
215	tgt	tcc	aca	ctc	gta	cca	aag	gta
216	Cys	Ser	Thr	Leu	Val	Pro	Lys	Val
217							275	
219	tcc	gaa	cac	cgt	aat	caa	acc	ggg
220	Ser	Glu	His	Arg	Asn	Gln	Thr	Gly
221							290	
223	gtt	ttg	ctc	tcc	ctc	cat	ggg	tca
224	Val	Leu	Leu	Ser	Leu	His	Gly	Ser
225	305						310	
227	atc	gcc	gtt	ctt	tgg	gag	atg	ata
228	Ile	Ala	Val	Leu	Trp	Glu	Met	Ile
229							325	
231	gtc	tta	atc	gag	tgg	atc	ctc	gct
232	Val	Leu	Ile	Glu	Trp	Ile	Leu	Ala
233							340	
235	caa	tca	acg	gta	caa	aac	gag	ctg
236	Gln	Ser	Thr	Val	Gln	Asn	Glu	Leu
237							355	
239	gcc	cta	gat	gaa	tct	gac	ttg	gct
240	Ala	Leu	Asp	Glu	Ser	Asp	Leu	Ala
241							370	
243	gtg	aaa	gaa	gta	ttg	agg	ctt	cat
244	Val	Lys	Glu	Val	Leu	Arg	Leu	His
245	385						390	
247	gcc	cgt	ttg	gcc	ata	aca	gac	acg
248	Ala	Arg	Leu	Ala	Ile	Thr	Asp	Thr
249							405	
251	gca	ggg	acc	aca	gca	atg	gtg	aac
252	Ala	Gly	Thr	Thr	Ala	Met	Val	Asn
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RAW SEQUENCE LISTING

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259 aaa gaa ggt gag gtg gag ttt tcg gtt ctt ggg tcg gat ttg aga ctt      1392
260 Lys Glu Gly Glu Val Glu Phe Ser Val Leu Gly Ser Asp Leu Arg Leu
261          450                      455                      460
263 gca cct ttc ggg tcg ggt cgt cgg att tgc ccc ggg aag aat ctt ggt      1440
265 Ala Pro Phe Gly Ser Gly Arg Arg Ile Cys Pro Gly Lys Asn Leu Gly
266 465          470                      475                      480
268 ttt act acc gtt atg ttt tgg acg gcg atg atg tta cat gag ttt gaa      1488
269 Phe Thr Thr Val Met Phe Trp Thr Ala Met Met Leu His Glu Phe Glu
270          485                      490                      495
272 tgg gga ccg tcc gat ggt aac ggc gtt gac tta tct gag aaa ctg agg      1536
273 Trp Gly Pro Ser Asp Gly Asn Gly Val Asp Leu Ser Glu Lys Leu Arg
274          500                      505                      510
276 ctt tct tgc gag atg gct aat cct ctt cct gct aaa ttg cgc cgt agg      1584
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281 Arg Ser      1593
282          530
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287 <211> LENGTH: 530
289 <212> TYPE: PRT
291 <213> ORGANISM: Arabidopsis thaliana
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302          20          25          30
305 Thr Ile Ile Trp Leu Ala Ile Ser Leu Phe Leu Trp Thr Tyr Pro Gly
306          35          40          45
309 Gly Pro Ala Trp Gly Lys Tyr Leu Phe Gly Arg Leu Ile Ser Gly Ser
310          50          55          60
313 Tyr Lys Thr Gly Asn Val Ile Pro Gly Pro Lys Gly Phe Pro Leu Val
314 65          70          75          80
317 Gly Ser Met Ser Leu Met Ser Ser Thr Leu Ala His Arg Arg Ile Ala
318          85          90          95
321 Asp Ala Ala Glu Lys Phe Gly Ala Lys Arg Leu Met Ala Phe Ser Leu
322          100         105         110
325 Gly Glu Thr Arg Val Ile Val Thr Cys Asn Pro Asp Val Ala Lys Glu
326          115         120         125
329 Ile Leu Asn Ser Pro Val Phe Ala Asp Arg Pro Val Lys Glu Ser Ala
331          130         135         140
334 Tyr Ser Leu Met Phe Asn Arg Ala Ile Gly Phe Ala Pro His Gly Val
335 145          150         155         160
338 Tyr Trp Arg Thr Leu Arg Arg Ile Ala Ser Asn His Leu Phe Ser Thr
339          165         170         175
342 Lys Gln Ile Arg Arg Ala Glu Thr Gln Arg Arg Val Ile Ser Ser Gln

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/022,025

DATE: 10/25/2002

TIME: 16:08:21

Input Set : A:\ep.txt

Output Set: N:\CRF4\10252002\J022025.raw

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351          210          215          220
354 Phe Gly Gln Glu Tyr Glu Leu Glu Lys Asn His Val Glu Leu Arg Glu
355 225          230          235          240
358 Met Val Glu Glu Gly Tyr Asp Leu Leu Gly Thr Leu Asn Trp Thr Asp
359          245          250          255
362 His Leu Pro Trp Leu Ser Glu Phe Asp Pro Gln Arg Leu Arg Ser Arg
363          260          265          270
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367          275          280          285
370 Ser Glu His Arg Asn Gln Thr Gly Asp Leu Pro Arg Asp Phe Val Asp
371          290          295          300
374 Val Leu Leu Ser Leu His Gly Ser Asp Lys Leu Ser Asp Pro Asp Ile
375 305          310          315          320
378 Ile Ala Val Leu Trp Glu Met Ile Phe Arg Gly Thr Asp Thr Val Ala
379          325          330          335
382 Val Leu Ile Glu Trp Ile Leu Ala Arg Met Val Leu His Pro Asp Met
383          340          345          350
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387          355          360          365
390 Ala Leu Asp Glu Ser Asp Leu Ala Ser Leu Pro Tyr Leu Thr Ala Val
391          370          375          380
394 Val Lys Glu Val Leu Arg Leu His Pro Pro Gly Pro Leu Leu Ser Trp
395 385          390          395          400
398 Ala Arg Leu Ala Ile Thr Asp Thr Ile Val Asp Gly Arg Leu Val Pro
399          405          410          415
402 Ala Gly Thr Thr Ala Met Val Asn Met Trp Ala Val Ser His Asp Pro
403          420          425          430
406 His Val Trp Val Asp Pro Leu Glu Phe Lys Pro Glu Arg Phe Val Ala
407          435          440          445
410 Lys Glu Gly Glu Val Glu Phe Ser Val Leu Gly Ser Asp Leu Arg Leu
411          450          455          460
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415 465          470          475          480
418 Phe Thr Thr Val Met Phe Trp Thr Ala Met Met Leu His Glu Phe Glu
419          485          490          495
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427          515          520          525
430 Arg Ser
431          530
434 <210> SEQ ID NO: 4
436 <211> LENGTH: 15
438 <212> TYPE: DNA
440 <213> ORGANISM: synthetic construct

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see item 10 on Error Summary sheet

*Please correct this error
in subsequent sequences.*

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/022,025

DATE: 10/25/2002

TIME: 16:08:22

Input Set : A:\ep.txt

Output Set: N:\CRF4\10252002\J022025.raw